**ACADEMIA ROMÂNĂ**
**Institutul de Statistică Matematică şi Matematică Aplicată**
**"GHEORGHE MIHOC- CAIUS IACOB"**
Casa Academiei Române, Calea 13 Septembrie nr.13
050711 Bucureşti 5
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# RAPORT DE AUTOEVALUARE
## perioada: 1.01.2003 – 30.11.2007

1. **Datele de autentificare ale unităţii de cercetare – dezvoltare:**

1.1. Institutul de Statistică Matematică şi Matematică Aplicată "Gheorghe Mihoc - Caius Iacob"
1.2. Instituţie de stat cu personalitate juridică în subordinea Academiei Române.

1.3. Înfiinţată prin HG. 1366/2001 (publicată în MO nr. 55/25.01.2002)

1.4. Numărul de înregistrare în Registrul Potenţialilor Contractori:2636

1.5. Director: Acad. Marius Iosifescu

1.6. Adresa: Casa Academiei Române, Calea 13 Septembrie nr.13, 050711 Bucureşti 5

1.7. Telefon: (+40-21) 318.24.33, Fax: 318.24.33, e-mail : miosifes@ acad.ro

2. **Domeniul de specialitate:**

2.1. Conform clasificării UNESCO: 1100
2.2. Conform clasificării CAEN: 7310

3. **Starea Unităţii de cercetare – dezvoltare:**

- Misiunea unităţii de cercetare – dezvoltare: *cercetare ştiinţifică pe probleme de teoria probabilităţilor, statistică matematică, cercetări operaţionale, teoria sistemelor dinamice, mecanica fluidelor (aspecte teoretice şi numerice) ,modelarea matematică în biologie şi ştiinţele mediului precum şi pe probleme de matematică în cadrul unor cercetări interdisciplinare*
- Modul de valorificare al rezultatelor: *articole ştiinţifice în reviste de specialitate sau în volume, comunicări în cadrul unor manifestări ştiinţifice naţionale şi internaţionale, monografii şi tratate ştiinţifice*
- Situaţia financiară: *nu are datorii la bugetul de stat.*

**4. Îndeplinirea criteriilor de performanţă:** (Detalii în Anexa la raport)

| | Criteriul | Factor de importanta | Număr | TOTAL |
|---|---|---|---|---|
| *AI* | *CRITERII PRIMARE DE PERFORMANŢĂ* | | | |
| *1* | *Lucrări ştiinţifice/tehnice în reviste de specialitate cotate ISI* | 30 | 77 | 2310 |
| *2* | *Factor de impact cumulat al lucrărilor cotate ISI* | 5 | 102.491 | 512.455 |
| *3* | *Citări în reviste de specialitate cotate ISI* | 5 | 409 | 2045 |
| *4* | *Brevete de invenţie* | | | |
| *5* | *Citări în sistemul ISI ale cercetărilor brevetate* | | | |
| *6* | *Produse, servicii, tehnologii rezultate din activităţile de cercetare bazate pe brevete, omologări sau inovaţii proprii.* | | | |

**Total 4867.455**

**5. Îndeplinirea criteriilor secundare de performanţă:** (Detalii în Anexa la raport)

| | Criteriul | Factor de impact | Număr | TOTAL |
|---|---|---|---|---|
| *A2* | *CRITERII SECUNDARE DE PERFORMANŢĂ* | | | |
| *1* | *Lucrări ştiinţifice/tehnice în reviste de specialitate fără cotaţie ISI* | 5 | 209 | 1045 |
| *2* | *Comunicări ştiinţifice prezentate la conferinţe internaţionale* | 5 | 198 | 990 |
| *3* | *Sudii prospective şi tehnologice, normative, proceduri, metodologii şi planuri tehnice, noi sau perfecţionate, comandate sau utilizate de beneficiar* | | | |
| *4* | *Drepturi de autor protejate ORDA sau în sisteme similare legale* | | | |

**Total 2035**

**6. Prestigiul profesional:** (Detalii sau date în Anexa la raport)

| | | | | |
|---|---|---|---|---|
| *B* | *PRESTIGIU PROFESIONAL* | | | |
| *1* | *Membri în colectivele de redacţie ale revistelor recunoscute ISI (sau incluse în baze internaţionale de date) şi în colective editoriale internaţionale.* | 20 | 11 | 220 |
| *2* | *Membri în colectivele de redacţie ale revistelor recunoscute naţionale (categoria B în clasificarea CNCSIS)* | 10 | 9 | 90 |
| *3* | *Premii internaţionale obţinute prin proces de selecţie* | | | |
| *4* | *Premii naţionale (ale Academiei Române, CNCSIS, altele)* | 20 | 2 | 40 |
| *5* | *Număr conducători de doctorat, membri ai unităţii de cercetare* | 10 | 5 | 50 |
| *6* | *Numar de doctori, membri ai unităţii de cercetare* | 10 | 23 | 230 |

**Total 630**

2

- Institutul a fost ales Centru de Excelență în Cercetare în cadrul Academiei Române
- Institutul este Organizator de Doctorat

**7. Venituri realizate prin contracte de cercetare în domeniul pentru care se face evaluarea :**

- **Contracte de cercetare internaționale finanțate din fonduri publice : -**
- **Contracte de cercetare naționale finanțate din fonduri publice : 3167038 Lei (noi)**

**8. Resursa umană de cercetare :**

| | |
|---|---|
| **CSI** | **10** |
| **CSII** | **6** |
| **CSIII** | **4** |
| **CS** | **4** |
| **Total personal de cercetare** | **24** |
| | |
| **Asistent de cercetare** | **4** |
| **Asistent de cercetare stagiar** | **0** |
| **Total asistenți de cercetare** | **4** |
| **Personal auxiliar** | |
| **Asistenți I** | **2** |
| | |
| **TOTAL** | **30** |

În autoevaluare s-a calculat punctajul mediu mediat la Numărul de Personal de Cercetare=24.

**9. Infrastructura de cercetare-dezvoltare :**

3 rețele interne cu 35 desktopuri (2 servere conectate la Internet) ; rețelele sunt conectate prin cablu UDP și switch-uri de 8 porturi .
2 săli de seminar (50 locuri) echipate cu sisteme de proiecție de pe computer.
Acces electronic la MathSciNet.

Lista echipamentelor performante achiziționate în ultimii 10 ani se află în Anexa 9.2.

**10. Criterii suplimentare (propunerile comisiei)**

1. Capitole în cărți monografice (coordonate de persoane din alte instituții) (nu considera lucrările publicate în Proceedings-uri)
   1. din țară **15 x 20p/capitol = 300**
   2. din străinătate **11 x 30p/capitol = 330**
2. Participare la elaborarea de lucrări de amploare: atlase, dicționare, enciclopedii, alte lucrări similare
   1. din țară 20p/capitol
   2. din străinătate 30p/capitol

3. Cărți de autor publicate (nu cursuri unversitare, culegeri de probleme, note de laborator, sau editări proceedings-uri conferințe)

   1. din țară          **25 x 40p/carte = 1000**
   2. din străinătate   **11 x 60p/carte = 660**

4. Cărți coordonate (editate) inclusiv Proceedings-uri

   1. în țară            **2 x 20p/carte = 40**
   2. în străinătate      30p/capitol

5. Un contract extrabugetar obținut de către institut

   1. de organizații  int.      3 puncte/10000 lei
   2. de organizații naț.     1 punct / 10000 lei          **3167038Lei          316 puncte**

6. Bonus (pentru diferențierea lucrărilor la pct. A2.1)

   lucrări în reviste non-ISI din străinătate sau reviste ale Academiei se adaugă 3 pct.

   **119 x 3=357 puncte**

   **Total Criterii Suplimentare 3003 puncte**

| **Punctaj pe persoana de cercetare**: | | |
|---|---|---|
| • **Criterii primare**: | **4867.455/24** | **puncte/pers. 203** |
| • Criterii secundare : | **2035/24** | **puncte/pers. 85** |
| • Prestigiul profesional: | **630/24** | **puncte/pers. 26** |
| **TOTAL** | **7532.455/24** | **puncte/pers. 314** |
| • Criterii suplimentare: | **3003/24** | **puncte/pers. 125** |
| **TOTAL General** | **10535.455** | **puncte/pers. 439** |

## Anexa 4.1. Criterii primare de performanţă

## 4.1.1. Lucrări ştiinţifice publicate în reviste de specialitate cotate ISI

## 2003

1. **George Dincă**, P. Jebeleanu, D. Motreanu, *Existence results for general inequality problems with constrains*, Abstract and Applied Analysis, 2003, Nr. 10, pp. 601 – 612, 2003.

2. **Horia Dumitrescu,Vladimir Cardos,** *Rotational effects on the boundary –layer flow in wind turbines*. AIAA Journal, Nr.2, pp 408-411, 2004 (F.I. = 0,456).

3. **Cornelia Enăchescu**,T. Postelnicu, *Patterns in journal citation data revealed by exploratory multivariate analysis*. Scientometrics **56** (1), 2003, pp. 43-59.

4. E. De Angelis, **Cecil P. Grunfeld**, *Modeling and analytic problems for a generalized Boltzmann equation for multicomoponent reacting gas*, Nonlinear Analysis Real World Applications, vol. 4, p. 189, 2003.

5. Cristian Dascalu, **Dorel Homentcovschi,** *Uniform asymptotic solutions for lamellar inhomogeneities in piezoelectric solids*. Quarterly of applied mathematics, 61 (4), pp. 657-682, 2003.

6. **Marius Iosifescu,** U. Herkenrath, A. Rudolph, *A note on invariance principles for iterated random functions*. J. Appl. Probab. **40** (2003), pp. 834-837.

7. **Marius Iosifescu**, C. Kraaikamp, *On Denjoy's canonical continued fraction expansion*. Osaka J. Math. **40** (2003), pp. 235-244.

8. **Popa Constantin**, *Modified Kovarik algorithm for approximate orthogonalization of arbitrary matrices,* Intern. J. Computer Math., Vol. 80(4), pp. 519-525, 2003.

9. **Mihai Popescu**, *Periodic solutions for nonlinear differential system of equations with a small parameter*. Nonlinear Analysis (USA) vol. 52 (2003), pp. 535-544.

10. **Aurel Spătaru**, Gut, A., *Precise asymptotics in some strong limit theorems for multidimensionally indexed random variables*. J. Multivariate Anal. **86**, pp. 398-422 (2003).

11. **I.M. Stancu-Minasian,** Bogdana Pop, *On a fuzzy set approach to solving multiple objective linear fractional programming problem*. Fuzzy Sets and Systems . **134** (2003)3, pp. 397-405.

12. **Vasile Preda**, **I.M. Stancu-Minasian**, Eduard Koller, *On optimality and duality for multiobjective programming problems involving generalized d-type-I and related n-set functions*. J. Math. Anal. Appl. 283 (2003) 1, pp. 114-128.

13. **Marcel O. Vlad**, Federico Moran and John Ross, *Lifetimes and on-off distributions for single molecule kinetics. Stochastic approach and extraction of information from experimental data.* Chemical Physics **287**, pp. 83–90 (2003).**F.I.=1.984**

## 2004

14. **Agapie Alexandru,** Höns Robin, Mühlenbein, Heinz, *Markov chain analysis for one-dimensional asynchronous cellular automata.* Methodol. Comput. Appl. Probab. 6, No. 2, pp. 181-201 (2004).

15. **Marius Iosifescu,** C. Kraaikamp, *A three-dimensional probability distribution in the metrical theory of continued fractions.* J. European Math. Soc. **6** (2004), pp. 181-192.

16. **Dorel Homentcovschi** and R. Miles, *Modelling of viscous damping of perforated planar microstuctures*, Journal of Acoustical Society of America, vol. 116, nr. 5, pp. 2939-2947, 2004.

17. Viorel Barbu, **Gabriela Marinoschi**, *Existence for a time dependent rainfall infiltration model with a blowing up diffusivity.* Nonlinear Analysis: Series B Real World Applications, 5, 2, 2004, pp. 231-245. **FI= 1.194**

18. **Gabriela Marinoschi**, *A free boundary problem describing the saturated-unsaturated flow in a porous medium.* Abstract and Applied Analysis, 9, pp. 729-755, 2004.

19. Viorel Barbu, **Gabriela Marinoschi**, *Existence for a time dependent rainfall infiltration model with a blowing up diffusivity.* Nonlinear Analysis: Series B Real World Applications, 5, 2, 2004, pp. 231-245. **FI= 1.194.**

20. **Gabriela Marinoschi**, *A free boundary problem describing the saturated-unsaturated flow in a porous medium.* Abstract and Applied Analysis, 9, pp. 729-755, 2004.

21. **Constantin Popa**, R. Zdunek, *Kaczmarz extended algorithm for tomographic image reconstruction from limited-data,* Math. and Computers in Simulation, 65(6)} (2004), pp. 579-598.

22. Mirela Mohr, **Constantin Popa**, U. Ruede, *An iterative algorithm for approximation orthogonalization of symmetric matrices*, Intern. J. Computer Math., 81(2) (2004), pp. 215-226.

23. **Mihai Popescu**, *On minimum quadratic functional control of affine nonlinear systems.* Nonlinear Analysis (USA) vol. 36 (2004) pp. 1165-1173.

24. **Aurel Spătaru**, *Precise asymptotics for a series of T. L. Lai*. Proc. Amer. Math Soc. **132**, pp. 3387-3395 (2004).

25. **Aurel Spătaru**, *Exact asymptotics in loglog laws for random fields*. J. Theoret. Probab. **17, pp.** 943-965 (2004).

26. **I.M. Stancu-Minasian**, *Optimality conditions and duality in multiobjective nonlinear programming involving semilocally b- preinvex and related functions.* Journal of Interdisciplinary Mathematics **7** (2004) 3, pp. 389-403.

27. **Marcel O. Vlad**, J. Ross, *Extraction of kinetic information from single molecule reaction experiments.* Phys. Chem. Chem Phys, vol **5**, pp. 1671-1678 (2004).**F.I.=2.892**

28. **Marcel O. Vlad**, L. Luca Cavalli-Sforza, John Ross, *Enhanced (hydrodynamic) transport induced by population growth in reaction–diffusion systems with application to population genetics.* Proceedings of the National Academy of Science (PNAS, U.S.A.) **101**, 10249–10253 (2004).**F.I.=9.643**

29. **Marcel O. Vlad**, Adam Arkin, John Ross, *Response experiments for nonlinear systems with application to reaction kinetics and genetics.* Proceedings of the National Academy of Science (PNAS, U.S.A.) **101**, pp. 7223–7228 (2004). **F.I.=9.643**

30. **Marcel O. Vlad**, Manuel C. Velarde, John Ross, *Analogies between colored Lévy noise and random channel approach to disordered kinetics.* Journal of Mathematical Physics **45**, pp. 736-760 (2004).**F.I.=1.018**

31. **Marcel O. Vlad**, Stefan C. Mueller, John Ross, *Stochastic approach to the random activation energy model with a rate-determining step. Universal behavior for the probability of concentration fluctuations.* Journal of Physical Chemistry A 108, 2770-2779 (2004).**F.I.=4.115**

32. **Gheorghiță Zbăganu**, Joel E. Cohen, J. H. B. Kemperman. *Elementary inequalities that involve two nonnegative vectors or functions .* Proceedings of the National Academy of Science (PNAS, U.S.A.), Oct 19 2004; **101** (42), pp. 15018-15022**. Factor impact: 9.643**

## 2005

33. **Romeo Bercia**, M. Tirnovan, C. Bercia, N. Popescu-Pogrion, *Electron microscopy of gamma -irradiated polyethylene*, Surface and Interface Analysis, vol. 38, no. 4, pp. 552-556, 2006.

34. **Mioara Buiculescu**, *Exponential decay parameters associated with excessive measures.* Séminaire de Probabilités **38** (in honor of J. Azèma). Lecture Notes in Mathematics **1857**, Springer 2005, pp135-145.

35. **Adrian Carabineanu,** E. Lungu, *Pseudospectral method for MHD pipe flow,* Int. J. Numer Meth. Engng., vol. 68, no. 2, 2006, pp.173-191.

36. **George Dincă**, D.Goeleven , *Periodic solutions for evolution complementarity systems: a method of guiding functions,* Topological Methods in Nonlinear Analysis, vol. 27, 2006, pp. 255-267.

37. **Dorel Homentcovschi**, Matthew J. Aubrey, Ronald N., Miles*, Viscous scattering of a pressure wave: Calculation of the fluid tractions on a biomimetic acoustic velocity sensor*, Journal of Acoustical Society of America, vol. 119, nr. 2, pp. 777-787, 2006.

38. **Dorel Homentcovschi**, **Ronald N., Miles,** *A two-dimensional model of a directional microphone: Calculation of the normal force and moment on the diaphragm*, Journal of Acoustical Society of America, vol. 119, nr. 2, pp. 756-768, 2006.

39. **Dorel Homentcovschi**, Ronald N., Miles, *Viscous damping of perforated planar micromechanical structures*, Sensor and Actuators, A tom. 119, 2005, pp 544-552.

40. **Dorel Homentcovschi**, Ronald N., Miles, L. Tan, *Influence of viscosity on the diffraction of sound by a periodic array of screens*, Journal of Acoustical Society of America, vol 117(5), pp. 2761-2771, 2005.

41. Caterina Cusulin, Mimmo Iannelli, **Gabriela Marinoschi**, *Age-strucutured diffusion in a multi-layer environment,* Nonlinear Analysis: Real World Applications, 6, 1, pp. 207-223, 2005. **F I= 1.194.**

42. **Gabriela Marinoschi**, *A free boundary problem describing the saturated-unsaturated flow in a porous medium. II. Existence of the free boundary in the 3-D case.* Abstract and Applied Analysis, 2005:8, pp. 813-854, 2005.

43. **Alexandru M. Morega**, Adrian Bejan, *A constructal approach to the optimal design of photovoltaic cells*, I. Journal of Green Energy, 2, 3, pp. 233-242, 2005.

44. Dorin Petcu, **Constantin Popa,** *A new version of Kovarik's approximate orthogonalization algorithm without matrix inversion*, Intern. J. Computer Math., 82(10), pp.1235-1246, 2005.

45. Gheorghe Juncu, E. Mosekilde, **Constantin Popa**, *Numerical experiments with MG continuation algorithms*, Applied Numerical Mathematics, vol. 56, pp. 844-861, 2006.

46. **Mihai Popescu**, *Control of nonlinear systems in singular problems*. Nonlinear Analysis (USA) vol. 63, nr. 5-7 pp. 1985-1997, 2005.

47. **Mihai Popescu**, *Control of affine nonlinear systems with nilpotent structure in singular problems.* Journal of Optimization Theory and Application (USA) vol. 124, No. 2 (2005), pp. 455-466.

48. **Mihai Popescu,** Fernard Pelletier, *Courbes optimales pour une distribution affine,* Bulletin des sciences mathematiques, (FRANCE), vol. 129 (2005), pp. 701-725, ISSN: 0007-4497.

49. **Mihai Popescu, Alexandru Dumitrache**, *On the optimal control of affine nonlinear control*. Mathematical Problems in Engineering (USA), nr. 4, pp. 465-475, 2005.

50. **Olivian Simionescu-Panait**, *Attenuated wave propagation on a face of a cubic crystal subject to initial electro-mechanical fields*, Int. J. of Applied Electromagnetics and Mechanics, vol. 22, nr. 1-2, pp. 111-120, IOS Press, 2005.

51. **Aurel Spătaru**, Li, D., *Refinement of convergence rates for tail probabilities*. J. Teor. Probab. **18**, pp. 933-947 (2005).

52. **Marcel. O. Vlad**, Stefan E. Szedlacsek, Nader Pourmand, L. Luca Cavalli-Sforza, Peter J. Oefner, John Ross, *Fisher theorems for multivariable, time and space-dependent systems, with applications to population genetics and chemical kinetics.* Proceedings of the National Academy of Science (PNAS, U.S.A.) **102**, 9848-9853 (2005).**F.I.= 9.643**

53. **Marcel O. Vlad**, Gianfranco Cerofolini, Peter J. Oefner, John Ross, *Random rate processes with random energy barriers.* Journal of Physical Chemistry, 109, pp. 21228-21234 (2005).**F.I.=4.115**

54. **Marcel O. Vlad,** John Ross, *Exact solutions for the entropy production of several Irreversible processes.*  Journal of Physical Chemistry, **189**, pp. 10607-10612 (2005). **F.I.=4.115**

55. **Marcel O. Vlad,** Arjang Hassibi, Christopher Contag, Maryam Hafezi, Thomas H. Lee, Ronald W. Davis & Nader Pourmand , *Bioluminescence regenerative cycle (BRC) system: Theoretical considerations for nucleic acid quantification assays.* Biophysical Chemistry **116**, pp. 175-185 (2005).**F.I.=1.784**

56. **Marcel O. Vlad**, Vlad T. Popa, E. Segal, John Ross, *Multiple rate-determining steps for nonideal and fractal kinetics.* Journal of Physical Chemistry B, **109(6**) pp. 2455–2460 (2005). **F I=4.115**

57. **Gheorghiță Zbăganu,** Joel E. Cohen, Johannes H. B. Kemperman, *A family of inequalities originating from coding of messages.* Linear Algebra and its Applications, 395(2005) 1-82.

## 2006

58. **Gabriela Marinoschi**, Gengsheng Wang, *Identification of the rain rate for a boundary value problem of a rainfall infiltration in a porous medium.* Numerical Functional Analysis and Optimization, 23, 2, pp. 189-205, 2006  **F I= 0.405.**

59. **Gabriela Marinoschi**, Gengsheng Wang, *Identification of the rain rate for a boundary value problem of a rainfall infiltration in a porous medium. II. Determination of the conditions of optimality*, Numerical Functional Analysis and Optimization , 23, 2, pp. 207-236, 2006, **FI=0.405.**

60. L.Movileanu, **Dumitru Popescu, Stelian Ion**, A.Popescu, *Stochastic pores appearance in BLMs.* Bulletin of Mathematical Biology. 68(6) 1231-1255, 2006. **F.I.= 1.592**

61. **Mihai Popescu**, *Study of the optimality of singular arcs for transfer trajectories,* Journal Nonlinear Studies (USA) Vol 13, No 3, (2006), pp. 221-238, ISSN: 1359-8678.

62. **Aurel Spătaru**, Li, D., *A converse to precise asymptotic results.* Statistics & Probab. Letters **76**, pp. 503-506 (2006).

63. **Aurel Spătaru**, *Strengthening classical results on convergence rates in strong limit theorems.* Probab. Theory Relat. Fields **136**, 1-18 (2006).

64. **I.M. Stancu-Minasian**, *A sixth bibliography of fractional programming*. Optimization **55** (2006) 4, pp. 405-428.**F.I.=0.5.**

65. **Marcel. O. Vlad**, Peter Oefner, John Ross, *Transition Event Statistics in Genetics and Disordered Kinetics. Theoretical Approaches for Extracting Rate Distributions from Experimental Data.* Journal of Physical Chemistry B, **110***, 18945-18952 (2006). **F.I.=4.115**

66. **Marcel O. Vlad,** G.F. Cerofolini, D. Macolo, *A model for oxidation kinetics in air at room temperature of hydrogen-terminated (100) Si.* Journal of Applied Physics, **100**, (11 pages) pp. 054308 (2006). **F.I.=2.316**


   **2007**

67. **Cecil P. Grunfeld**, *Nonlinear evolution equation in and ordered space arising from kinetic theory*, Commun. Contemp. Mathematics, Vol. 9, No. 2 (2007) pp. 217 - 251.

68. **Dorel Homentcovschi**, Ronald N., Miles, *Viscous microstructural dampers with aligned holes; Design procedure including the edge correction*, Journal of Acoustical Society of America, vol. 122, 2007, pp. 1556-1567.

69. **Dorel Homentcovschi,** Ronald N., Miles, *A boundary integral approach to analyse the viscous scattering of a pressure wave by a rigid body*, Engineering Analyse with Boundary Elements, vol. 31(2007), pp. 844-855.

70. Caterina Cusulin, Mimmo Iannelli, **Gabriela Marinoschi**, *Convergence in a multi-layer population model with age-structure.* Nonlinear Analysis Real World Applications, vol. 8(2007), pp. 887-902, 2007. **FI= 1.194.**

71. Angelo Favini, **Gabriela Marinoschi**, *Existence for a degenerate parabolic problem with a nonlinear operator.* Journal of Evolution Equations, 7, pp. 743-764, 2007, **FI=0.679.**

72. **Mihai Popescu**, *Sweep method in analysis optimal control for rendez-vous problems.* Journal of Applied Mathematics and Computing, Vol. 23, No. 1-2, (2007), pp. 243-237, ISSN 1598-5865.

73. **Olivian Simionescu-Panait**, *Propagation of attenuated waves along an edge of a cubic crystal subject to initial electro-mechanical fields*, Math. and Mech. of Solids, vol. 12, nr. 1, p. 107-118, 2007.

74. **Marcel O. Vlad**, Alexandru Dan Corlan, Vlad T. Popa, and John. Ross, *On anti-portfolio effects in science and technology with application to reaction kinetics, chemical synthesis, and molecular biology.* Proceedings of the National Academy of Science (PNAS, USA), 104, pp. 18398-18403 (2007).**F.I.=9.643**

75. **Marcel O. Vlad,** Federico Moran, Vlad T. Popa, Stefan E. Szedlacsek and John. Ross, *Functional, Fractal nonlinear response with application to rate processes with memory, allometry, and population genetics.* Proceedings of the National Academy of Science (PNAS, USA), 104, pp. 4798-4803 (2007). **F.I.=9.643**

76. **Marcel O. Vlad,** Federico Moran,  M. Bustos, J.C. Trivino, J. Ross, *Species Connectivities and Reaction Mechanisms from Neutral Response Experiments.* Journal of Physical Chemistry A., **111**,  pp. 1844-1851 (2007).**F.I.=4.115**

77. **Marcel O. Vlad**, John Ross, *Inverse problems for reaction-diffusion systems with application to geographical population genetics.* Advances in Chemical Physics, **135**, pp. 173-187 (2007).

## 4. 1. 2. Factor de impact cumulat al lucrarilor cotate ISI

1.984 (13)
1.194 (17)
1.194 (19)
2.892 (27)
9.643 (28)
9.643 (29)
1.018 (30)
4.115 (31)
9.643 (32)
4.115 (53)
9.643 (52)
4.115 (54)
1.784 (55)
4.115 (56)
1.592 (60)
0.405 (58)
0.405 (59)
1.592 (60)
0.5 (64)
4.115 (65)
2.316 (66)
1.194 (70)
0.679 (71)
9.643 (74)
9.643 (75)
4.115 (76)
1.194 (41)

**Total 102.491**

**TOTAL PUNCTE: 102.491x5=512.455**

## 4.1.3. Citări în reviste de specialitate cotate ISI

**Lucrarea citată:**

**Alexandru Agapie, Theoretical analysis of mutation-adaptive evolutionary algorithms, Evolutionary Computation 9 (2), 2001, pp.127-146.**

**Citată în:**

1. Hart WE, "Rethinking the design of real-coded evolutionary algorithms", Soft Computing 9 (4), 2005, pp:225-235.

2. Schmitt LM, "Theory of Genetic Algorithms II", Theoretical Computer Science 310 (1-3), 2004, pp. 181-231.

3. Kanarachos, A, Koulocheris D, Vrazopoulos H, "Evolutionary Algorithms with deterministic mutation operators used for the optimization of the trajectory of a four-bar mechanism", Mathematics and Computers in Simulation 63 (6), 2003, pp. 483-492.

4. Hart WE "Locally-adaptive and memetic evolutionary pattern search algorithms", Evolutionary Computation 11 (1), 2003, pp.29-51.

**Lucrarea citată:**

**Alexandru Agapie, et al. "A genetic algorithm for a fitting problem", Nuclear Instruments and Meethods in Physics Research Section A 389 (1-2), 1997, pp:288-292**.

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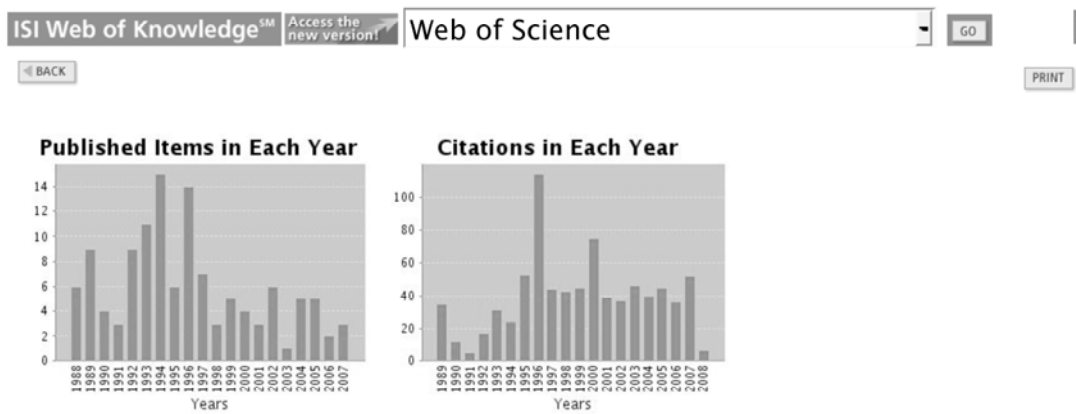
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**TOTAL Puncte: 409x5=2045**

## Anexa 5. Criterii secundare de performață

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148. **Viorel Gh. Vodă,** *The Six Sigma Movement: the new brand for quality statistical analysis.* Proceedings of the 10th International Conference "QUALITY and DEPENDABILITY", (2006) pp. 410-413, Edited by SRAC-IQNET-EUROCER BUILDING – IEEE (USA).

149. **Gheorghiţă Zbăganu**, 8ème colloque Franco-Roumain de Mathématiques Appliquées. Chambéry, 28.08.2006-1.9.2006.

## 2007

150. **Voicu Boşcaiu**, *Multidimensional discrimination models in biostatistics.* "Computational and Statistical Aspects of Microarray Analysis Workshop "(CSAMA), - June 18th-22th 2007, Bressanone-Brixen, Italia.

151. **Voicu Boşcaiu**, On Partial Correlation in Genomic Data Analysis, "International Workshop Integrative Bioinformatics"- September 10th-12th 2007", University of Ghent, Belgium, http://www.rothamsted.bbsrc.ac.uk/bab/conf/ib07/posterabs.php.

152. **Voicu Boşcaiu**, **I.M. Stancu-Minasian şi Viorel Vodă,** *Defining hierarchies for bibliometric entities.* Proceedings of the Workshop „Services and Software

Architectures, Infrastructures and Engineering for enhacing EU Citizen's Quality of Life", May 17-18, 2007, Bucharest, Romania, pp. 163-170, Romanian Academy Library.

153. **Miora Buiculescu** – 56th International Meeting of Statisticians, Lisbon, 22-29 August 2007

154. **Horia Dumitrescu, Vladimir Cardos, Alexandru Dumitrache,** *Modelling of inboard stall delay due to rotation.* The Science of making torque from wind –TWIND, (Lyngby), Denmark, 28-31 August 2007.

155. **Alexandru Dumitrache,** Adrian Carabineanu**,** *„A numerical method of 2-D flow around a flapping airfoil,* 6 th Congress of Romanian Mathematicians, Bucureşti, 28 June -4 July, 2007.

156. **Horia Dumitrescu, Vladimir Cardoş, Alexandru Dumitrache,** *Flow separation on rotating blades,* 31*th* ARA Congress, Brasov, Romania, 31 Iulie – 05 August 2007.

157. **Alexandru Dumitrache, Horia Dumitrescu, Vladimir Cardoş**, *An optimal methodology for active boundary-layers flow control.* 31*th* ARA Congress, Brasov, Romania, 31 Iulie – 05 August 2007.

158. **Alexandru Dumitrache,** *Active control laws for computational aeroelasticity.* The 2nd European Conference for Aerospace Sciences (EUCASS), Bruxelles, 01-06 Iulie 2007.

159. **Horia Dumitrescu, Alexandru Dumitrache, V. Cardos,** *Aerodynamic and Aeroacoustic Analysis of HAWT in Yaw,* AIAA/CEAS Aeroacoustic Conference, Roma, 20-23 Mai 2007.

160. **Horia Dumitrescu**, **Al.Dumitrache**, **V.Cardos**, *Aerodynamic and aeroacustic analysis of a HAWT in yaw.* AIAA 2007-3556, AIAA Meetings papers on disc , CD: 1493-332501

161. **Horia Dumitrescu**, **V. Cardos, Al.Dumitrache**, *Modeling of inboard stall delay due to rotation.* Journal of Physics: Conference Series 75, 2007 ,012022.

162. **Horia Dumitrescu**,V.Cardos, Al. Dumitrache, *Flow separation on rotating blades.* Proceedings on the 31 st Annual Congress of the American Romanian Academy of Arts and Sciences, p.497-500, 1-5 August 2007, Brasov ISBN 978-2-553-01412-3.

163. **Cornelia Enăchescu,** D.Enăchescu, *Detection of outlying observations in design bioavailability studies*, A 10-a Conferinta a Societăţii de Probabilităţi şi Statistică din Romania, 13-14 aprilie 2007.

164. **Cornelia Enăchescu**, Denis Enăchescu, *Nonstandard techniques for smart clustering. Application to the recommender systems for libraries.* Workshop Services and Software Architectures, Infrastructures and Engineering for enhancing EU Citizen's Quality of Life, May 17-18, 2007

165. **Cornelia Enăchescu**, *Some statistical techniques for outliers detection in bioequivalence studies.* The 29th International Conference -MEDINF 2007, Sibiu, România.

166. **Cornelia Enăchescu**, D.Enăchescu, *Exploratory Data Analysis techniques for detection of possible outlying subjects in designs of bioavailability studies*, Conference of Technologies of Knowledge Exploration and Representation, 5-9 Septembrie 2007, Holny Mejera, Polonia.

167. **Stelian Ion**, Anca Ion, **Dorin Marinescu**, *Discret approximatio of Nonlinear Diffusion Equation.* In series Mathematical Modelling on Environmental and Life Sciences Problems, editors S. Ion, G. Marinoschi and C. Popa, Editura Academiei Romane, 2007, pp. 99-109.

168. **Gabriela Marinoschi**, *Optimal control of particle motion in biological membrane channels.* Conference Matematica Oggi per l'Uomo e l'Ambiente, Montecatini 26-29 March, 2007.

169. **Gabriela Marinoschi**, *A degenerate diffusion problem with a multivalued operator.* conferinta Direct, Inverse and Control Problems, Roma, Italia, 23-28.06.2007.

170. **Gabriela Marinoschi**, *Well-posedness for a degenerate diffusion equation with a nonlinear operator.* 6th Congress of Romanian Mathematicians, Bucharest, June 28-July 4, 2007.

171. **Gabriela Marinoschi**, *Periodic flows in porous media, Mathematical Models for Complex Systems.* Cortona, September 25-29, 2007.

172. **Udrea Păun**, *General Delta-ergodic theory: a generalization.* A 10-a Conferinta a SPSR, 13-14 apr. 2007, ASE Bucureşti.

173. **Dumitru Popescu**, Corneliu N. Zaharia, Maria-Luisa Flonta, Alin Gabriel Popescu, *The determination of the conditions for the realization of the pulsatory unillamelar liposomes*. 2007. A IX-a Conferinţă Naţională de Biofizică, 11-13 mai Bucureşti,

174. Corneliu N. Zaharia, **Dumitru Popescu**, and Alin Gabriel Popescu. *The rolle of the external medium viscosity of the parameters of the transitory pores through spherical lipids bilayers*. 2007. A IX-a Conferinţă Naţională de Biofizică, 11-13 mai Bucureşti,

175. **Dumitru Popescu**, Alin Gabriel Popescu, *The Dynamics of Pulsatory Liposome.* The Sixth Workshop on Mathematical Modeling of Environmental and Life Sciences Problems, 5 – 9 September 2007, Constanţa.

176. **Dumitru Popescu**, C.N. Zaharia, and A.G.Popescu, *The working of pulsatory liposomes is based on transient pores.* Romanian International Conference on Chemistry Chemical Engineering- RICCCE XIV, September 19-22, 2007, Sinaia – Romania.

177. C.N. Zaharia, A.G.Popescu, **Dumitru Popescu**, *The appearance of transient pores in unilamellar lipidic vesicles under induced mechanical tension.* Romanian International Conference on Chemistry Chemical Engineering- RICCCE XIV, September 19-22, 2007, Sinaia – Romania.

178. **Mihai Popescu**, *Nonlinear quadratic regulation of optimal control stability.* , Seminar ştiinţific, Universite de Savoie, France, 23 aprilie 2007.

179. **Mihai Popescu**., *Applications of nonlinear control using the state-dependent Riccati Equation.* Seminar ştiinţific, Universite de Savoie, France, 27 aprilie 2007.

180. **Mihai Popescu**, *Algorithm for solving Riccati equations in optimal linear quadraticproblems.* Seminar ştiinţific, Universite de Savoie, France, 3 may 2007.

181. **Mihai Popescu**, *Optimal control for bilinear systems utilizing Bellman equation.* Seminar ştiinţific, Universite de Savoie, France, 8 may 2007.

182. **Mihai Popescu**, *Optimal control for quasilinear systems with small parameter.* 6th International Congress on Industrial and Applied Mathematics, 16-20 july, Zurich, 2007.

183. **Mihai Popescu,** Fernard Pelletier, *Optimal trajectories wich are tangent to an affine distribution..* 6th ICIAM Congress, 16-20 july, Zurich, 2007.

184. **Mihai Popescu**, *Sufficient conditions for optimal control in Bolza problems.* The 31th Annual Congress of the American Romanian Academy, 1-5 August, Braşov, România, 2007.

185. **Mihai Popescu**, *Optimal singular control for systems involving parameters,* Annual Scientific Conference GAMM, Zurich, 16-20 july 2007.

186. **Mihai Popescu**, *Sufficient optimality condition in orbital rendez-vous problems.* 6th Congress of Romanian Mathematicians, june 28 – july 4, , Bucharest, Romania., 2007

187. **Marius Rădulescu,** Rădulescu C.Z., *Optimal decisions for crop planning under risk.* Conferinta "Cercetarea de Excelenţă - premiza favorabilă pentru dezvoltarea spaţiului românesc de cercetare", ediţia 2007, Brasov.

188. **Marius Rădulescu,** Rădulescu S., Rădulescu C.Z., *A portfolio theory approach to crop planning under environmental constraints.* 22nd European Conference on Operational Research EURO XXII, pg. 162, TE 42, Prague, Czech Republic, 2007.

189. **Marius Rădulescu,** Rădulescu S., Rădulescu C.Z., *Mean-variance portfolio selection with transaction costs and initial holdings.* International Conference "Operations Research 2007", pag. 129, Saarbrücken, Germany, 2007.

190. **Marius Rădulescu,** Rădulescu S., Rădulescu C.Z., *Mathematical programming models with complementarity constraints and applications to portfolio selection.* International Conference OPTIMIZATION 2007, pag. 130, Porto, Portugal.

191. **Gheorghe Răuţu**, *Branching Properties in Financial Models.* Simpozionul de Matematici Financiare, 2007.

192. **Aurel Spătaru**, *New convergence rates in strong limit theorems.* Conferinta SPSR 2007.

193. **I.M. Stancu-Minasian, Andreea Mădălina Stancu,** *Optimality and duality for multiobjective fractional programming problems with n-set functions and generalized V-type-I univexity.* 22th European Conference on Operational Research (EURO XXII), Prague, July 8-11, 2007.

194. Ştefan Mititelu, **I.M. Stancu-Minasian ,** *Efficiency and duality for multiobjective fractional variational problems with* ($\rho$, *b*) *–quasiinvexity.* BALCOR 2007, 8th Balkan Conference on Operational Research, Belgrad –Zlatibor, Serbia, September, 14th -17th , 2007.

195. **I.M. Stancu-Minasian,** Gheorghe Dogaru**, Andreea Mădălina Stancu,** *Duality for multiobjective nonlinear fractional programming problems involving d-type-I n-set functions.* BALCOR 2007, 8th Balkan conference on Operational Research, Belgrad – Zlatibor, Serbia, September, 14th -17th , 2007.

196. **I.M. Stancu-Minasian, Andreea Mădălina Stancu,** *Duality for nonlinear fractional programming problems involving* $\rho$- *semilocally b-preinvex functions.* A 10-a Conferință SPSR, Bucureşti, 13-14 aprilie 2007.

197. **I.M. Stancu-Minasian, Andreea Mădălina Stancu,** *Duality for multiobjective nonlinear fractional programming problems involving generalized d-type-I n-set functions.* 6th Congress of Romanian Mathematicians, June 28-July 4, 2007, Bucharest, Romania.

198. **I.M. Stancu-Minasian,** Narcisa Teodorescu**,** *On a linear stochastic fractional programming problem.* International Conference „Trends and Challanges in Applied Mathematics", June 20-23, 2007, Technical University of Civil Engineering, Bucharest, Romania.

**TOTAL PUNCTE 198x5=990**

## 6. Prestigiul profesional

### 6.1. Membri (incluzând statutul de recenzor) în colectivele de redacție ale unor reviste (cotate ISI sau incluse în baze de date internaționale) sau în colective editoriale ale unor edituri internaționale recunoscute

1. **Marius Iosifescu**, J.European Math. Soc/European Math Soc.

2. **Cornelia Enăchescu**, editor regional pentru Statistical Theory&Methods Abstracts (STMA), published by the International Statistical Institute (since 2002)

3. **Mihai Popescu,** Membru in colectivul de redactie la *Journal of Applied Mathematics and Computing* (JAMC), incepând din 2005.

4. **Marius Rădulescu,** Journal of Applied Sciences: http://vectron.mathem.pub.ro

5. **Aurel Spătaru,** Statistics & Probab. Letters (recenzor)

6. **Aurel Spătaru,** Stochastic Analysis and Applications (recenzor)

7. **Aurel Spătaru**, Journal of Mathematical Analysis and Applications (recenzor)

8. **Aurel Spătaru,** Journal of the Australian Mathematical Society (recenzor)

9. **I.M. Stancu-Minasian,** Pure and Applied Mathematika Science (India): Regional Editor

10. **I.M. Stancu-Minasian,** Advanced Modelling and Optimization. An Electronic International Journal

11. **Viorel Gh. Vodă,** Journal of Applied Quantitative Methods

**Total puncte : 11 x 20=220**

### 6.2. Membri în colectivele de redacție ale revistelor recunoscute național (din categoria B în clasificarea CNCSIS)

1. **Marius Iosifescu** , Revue Roumaine de Mathématiques Pures at Appliqués

2. **Marius Iosifescu** ,-Proceedings of the Romanian Academy

3. **Marius Iosifescu** -Matematica (Cluj)-Ed.Acad.

4. **Marius Iosifescu** -Revue d' Analyse Numerique et de Theorie d' Approximation (Cluj)

5. **Gabriela Marinoschi**, secretar ştiinţific, Mathematical Reports, Editura Academiei Române

6. **I.M. Stancu-Minasian,** Revue Roumaine de Mathématiques Pures et Appliqués, Secretar ştiinţific

7. **I.M. Stancu-Minasian,** Applied Medical Informatics (The official Journal of the Romanian Society for Applied Medical Informatics, SRIMA)

8. **Viorel Gh. Vodă**, Calitatea (SRAC) – Journal of Romanian Society for Quality Assurance

9. **Viorel Gh. Vodă,** Calitate şi Management – redactor şef

**Total puncte: 9x10=90**

## 6.4. Premii naţionale ale Academiei Române

1. **Udrea Păun** – Premiul "Gh. Lazăr" 2004.

2. **Gheorghe Răuţu**, Gheorghe Ţiţeica 2004.

**Total puncte: 2x20=40**

## 6.5 Conducători de doctorat în ISMMA

**Număr conducători de doctorat:**                                      **5x10=50**

| Nr. Crt. | Numele şi Prenumele | Ordinul ministrului |
|---|---|---|
| 1. | Iosifescu Marius | O.M. /1971 reatestat prin OM 4794/1993, reatestat în şedinţa din 8.11.1999 <br> Reatestat prin OM 1805/20.08.2007 |
| 2. | Gabriela Marinoschi | O.M. 4629/2004, <br> Reatestat prin OM 1805/20.08.2007 |
| 3. | Tiberiu Postelnicu | O.M. /1969 reatestat prin O.M. 4794/1993, <br> Reatestat prin OM 1805/20.08.2007 |
| 4. | Aurel Spătaru | O.M. 3867/2004, <br> Reatestat prin OM 1805/20.08.2007 |
| 5. | Ioan M. Stancu-Minasian | O.M. 3204/1996, reatestat în şedinţa din 8.11.1999, <br> Reatestat prin OM 1805/20.08.2007 |

## 6.6. Doctori în ştiinţă, membri ai I.S.M.M.A.: 23

**Total puncte:23x10=230**

## 7. Venituri realizate prin contracte de cercetare în domeniul pentru care se face evaluarea în perioada 2003-2007

**7.3. Numărul şi valoarea contractelor de cercetare naţionale finanţate din fonduri publice**

**2003**

1. Resp. Proiect **Horia Dumitrescu**, *Elaborarea de modele analitice şi coduri numerice pentru analiza unor curgeri cu aplicaţie în domeniul aerospaţial.* Contract nr. 228/ 2003, Agenţia Spaţială Română, coord. INCAS S.A., 40000 RON.

2. **Cornelia Enăchescu** Grant CNCSIS 33948/2002-2003 tema 2, cod CNCSIS 11, *O nouă clasă de maşini cu vector suport pentru regresie şi discriminare.* Valoare totală 8120 din care 4320 RON/2003.

3. **Cornelia Enăchescu** GAR 93, Contract 143/2003. Studiu privind variabilitatea şi bioechivalenţa unor medicamente cardiovasculare. Valoare 1700 RON.

4. **Cornelia Enăchescu**, Program Prioritar de Cercetare MEC, VIASAN (Viaţă şi Sănătate),subcontract 274/1 2003, *Variabilitatea metabolică şi implicaţiile asupra farmacocineticii. Aplicaţie la medicamente cardiovasculare.* Valoare 2003 :10000 RON.

5. **Gabriela Marinoschi**, *Teoreme de existenţă pentru modele neliniare de infiltraţie.* Contract GAR 13/ 2003, Academia Română, valoare: 4000 RON.

6. Responsabil **Rădulescu Marius**, Grant CNCSIS (Cod CNCSIS: 1591) 2003-2005: *Inegalitati legate de teoria riscului.*Valoarea subcontractului: 26300 RON.

7. **I.M. Stancu-Minasian:**GAR 17/2003, *Programarea neliniară cu funcţii semilocal b-preinvexe.* Valoare: 2500 RON.

8. **I.M. Stancu-Minasian:** CNCSIS 2003-2005, *Programarea neliniară cu funcţii semi-preinvexe.* Valoare: 4300 RON/2003.

**2004**

9. **Voicu Boşcaiu**, CALIST5405/ 12.11.2004, MEC, *Metode statistice de control al proceselor prin determinarea capabilitatii utilajelor si proceselor ca instrumente aplicate in sistemul de management al calitatii conform* SR EN ISO 9001:2001, in parteneriat cu **IPRONEF.** Val.1140 RON din totalul 22500 RON.

10. Coord. **Horia Dumitrescu**, *Aerodinamica nestaţionară, aeroelasticitatea şi aeroacustica rotoarelor libere.* Contract 149/2004, Agenţia Spaţială Română, 50000 RON.

11. Resp. Proiect **Horia Dumitrescu**, *Elaborarea de modele analitice şi coduri numerice pentru analiza unor curgeri cu aplicaţie în domeniul aerospaţial.*

Contract nr. 228/ 2003, Agenția Spațială Română, coord. INCAS S.A., 15000 RON /2004.

12. **Cornelia Enăchescu** GAR 93, Contract 135/2004. Studiu privind variabilitatea şi bioechivalența unor medicamente cardiovasculare. Valoare 2300 RON.

13. **Cornelia Enăchescu**, Program Prioritar de Cercetare MEC, VIASAN (Viață şi Sănătate), subcontract 274/1 2003-2005, *Variabilitatea metabolică şi implicațiile asupra farmacocineticii. Aplicație la medicamente cardiovasculare.* Valoare 2004 : 21800 RON.

14. **Stelian Ion**, *Studiul unor mecanisme ale depresiei şi anxietăți prin simularea moeculară şi docking.* Contract 344/1.10.2004-VIASAN, ANCS, 1 500 RON.

15. **Stelian Ion**, *Modelare matematica: Rezultate abstracte si aplicatii.* Contract nr.4-187/15.11.2004-CERES, ANCS, 2 975 RON.

16. **Dorin Marinescu**, Modelare matematica in cinetica neliniara si algoritmi convergenti eficienti. Contract 33045/24.06.2004 MCT, 10 000 RON.

17. **Gabriela Marinoschi**, *Teoreme de existență pentru modele neliniare de infiltrație.* Contract GAR 11/2004, Academia Română, valoare: 4000 RON.

18. **Gabriela Marinoschi**, *Abordare functionala a modelelor de infiltrație cu aplicații la controlul resurselor de apă.* Contract 33045/2004, CNCSIS, valoare: 10000 RON.

19. **I.M. Stancu-Minasian:**GAR 15/2004, *Programarea neliniară cu funcții semilocal b-preinvexe.* Valoare: 3000 RON.

20. **I.M. Stancu-Minasian:** CNCSIS  2003-2005, *Programarea neliniară cu funcții semi-preinvexe.* Valoare: 8000 RON/2004.


**2005**

21. **Voicu Boşcaiu**,  CEEX MANANTECH  11/10.10.2005, MEC, *Evaluarea gradului de poluare acvatica prin biomarkeri de apoptoza si biosenzori celulari in vederea biomonitorizarii bazinului Dunării şi aprecierii calitatii produsului alimentar de origine piscicola, coordonator:* Institutul National de Cercetare – Dezvoltare pentru ştiințe Biologice (INCDSB), Bucureşti . Valoare 2005: 3000 RON; 2006:10000 RON; 2007:10000 RON.

22. **Voicu Boşcaiu**, CALIST5405/ 12.11.2004, MEC, *Metode statistice de control al proceselor prin determinarea capabilitatii utilajelor si proceselor ca instrumente aplicate in sistemul de management al calitatii conform* SR EN ISO 9001:2001, in parteneriat cu , **IPRONEF.** Val. 8314 RON din totalul 22500 RON.

23. **Mioara Buiculescu**, GAR 21/2005, *Procese Feller cu explozie rapidă*, 2000 RON.

24. Resp. Proiect **Horia Dumitrescu**, *Elaborarea de modele analitice şi coduri numerice pentru analiza unor curgeri cu aplicaţie în domeniul aerospaţial.* Contract nr. 228/ 2003, Agenţia Spaţială Română, coord. INCAS S.A., 15000 RON /2005.

25. **Cornelia Enăchescu** GAR Contract 121/2005. *Modele statistice pentru studiul factorilor de risc ai osteoporozei de involuţie.* Valoare : 2500 RON.

26. **Cornelia Enăchescu**, Program Prioritar de Cercetare MEC, VIASAN (Viaţă şi Sănătate), subcontract 274/1 2003-2005, *Variabilitatea metabolică şi implicaţiile asupra farmacocineticii. Aplicaţie la medicamente cardiovasculare.* Valoare 2005 : 5450 RON.

27. **Stelian Ion**, *Studiul unor mecanisme ale depresiei şi anxietăţi prin simularea moeculară şi docking.* Contract 344/1.10.2004-VIASAN, ANCS, 3 000 RON.

28. **Stelian Ion**, *Modelare matematica: Rezultate abstracte şi aplicaţii.* Contract nr.4-187/15.11.2004-CERES, ANCS, 1 785 RON.

29. **Stelian Ion**, *Evolutii cinetice si stari stationare de neechilibru.* Contract CEX-05-D11-06/03.10.2005-CEEX, ANCS, 12 000 RON.

30. **Gabriela Marinoschi**, *Studiul unor modele de difuzie neliniare.* Contract GAR 22/ 2005, valoare: 3500 RON.

31. **Gabriela Marinoschi**, *Abordare functionala a modelelor de infiltraţie cu aplicaţii la controlul resurselor de apă.* Contract 33045/2005, CNCSIS, valoare: 13000 RON.

32. **Gabriela Marinoschi**, *Modelare matematică în procese de difuzie.* Contract CEEX-05-D11-25/2005, finanţat de ANCS, valoare: 86000 RON.

33. **Gabriela Marinoschi,** *Analiza şi controlul sistemelor diferenţiale.* Contract CEEX-05-D11-36, subcontract nr. 3-14730/2005, finanţat de ANCS, valoare: 30000 RON.

34. **Aurel Spătaru,** CNCSIS 27639/2005, 2005-2007, Deviaţii mari, moderate şi mici în studiul proceselor aleatoare. Asimptotici exacte şi aplicaţii. 10000 RON.

35. **I.M. Stancu-Minasian:** CNCSIS  2003-2005, *Programarea neliniară cu funcţii semi-preinvexe.* Valoare: 15000 RON/2005.

36. **I.M. Stancu-Minasian:**GAR 23/2005, *Programarea neliniară cu funcţii $\rho$-semilocal convexe pe arce.* Valoare: 3500 RON.

37. **I.M. Stancu-Minasian:** Grant CEEX 05-D8-19/2005 *Sisteme support pentru cultura cunoaşterii bazate pe soluţii şi instrumente din domeniul BI* (*Business*

*Inteligence)- SSCB*. Perioada de desfăşurare  sept. 2005 – sept. 2008. Valoare: 20500 RON/ 2005.

**2006**

38. **Voicu Boşcaiu**, CALIST5405/ 12.11.2004, MEC, *Metode statistice de control al proceselor prin determinarea capabilitatii utilajelor si proceselor ca instrumente aplicate in sistemul de management al calitatii conform* SR EN ISO 9001:2001, in parteneriat cu , **IPRONEF.** Val. 13045 RON din totalul 22500 RON.

39. **Voicu Boşcaiu**,  CEEX MANANTECH  11/10.10.2005, MEC, *Evaluarea gradului de poluare acvatica prin biomarkeri de apoptoza si biosenzori celulari in vederea biomonitorizarii bazinului Dunării şi aprecierii calitatii produsului alimentar de origine piscicola, coordonator:* Institutul National de Cercetare – Dezvoltare pentru ştiinţe Biologice(INCDSB), Bucureşti . Valoare 2005: 3000 RON; 2006:10000 RON; 2007:10000 RON.

40. **Mioara Buiculescu**, GAR 17/2005, *Procese Feller cu explozie rapidă*, 3000 RON.

41. Responsabil proiect ISMMA, **Vladimir Cardoş,** *Cercetare-dezvoltare instalaţie eoliană pentru irigarea suprafeţelor agricole deficitare agroclimatic. Experimentare, certificare şi punere în fabricaţie.* Comtract 61/2006 CEEX-AGRAL (38 500 RON); 2006=10.000 RON.

42. **Cornelia Enăchescu**, GAR Contract 113/2006, *Modele statistice pentru studiul factorilor de risc ai osteoporozei de involuţie.* Valoare: 3500 RON.

43. **Stelian Ion**, *Studiul unor mecanisme ale depresiei si anxietati prin simularea moeculara si docking.* Contract 344/1.10.2004-VIASAN, ANCS, 3 000 RON.

44. **Stelian Ion**, *Modelare matematica: Rezultate abstracte si aplicatii.* Contract nr.4-187/15.11.2004-CERES, ANCS, 1 285 RON.

45. **Stelian Ion**, *Evolutii cinetice si stari stationare de neechilibru.* Contract CEX-05-D11-06/03.10.2005-CEEX, ANCS, 37 000 RON.

46. **Gabriela Marinoschi**, *Abordare funcţională a modelelor de infiltraţie cu aplicaţii la controlul resurselor de apă.* Contract 33045/2006, CNCSIS, valoare: 15600 RON.

47. **Gabriela Marinoschi**, *Modelare matematică în procese de difuzie.* Contract CEEX-05-D11-25/2005, finanţat de ANCS, valoare: 292000 RON.

48. **Gabriela Marinoschi**, *Analiza şi controlul sistemelor diferenţiale.* Contract CEEX-05-D11-36, subcontract nr. 3-14730/2005, finanţat de ANCS, valoare: 20000 RON.

49. **Gabriela Marinoschi**, *Studiul unor modele de difuzie neliniare.* Contract GAR 18/ 2006, valoare : 4000 RON.

50. **Gabriela Marinoschi**, *Noi abordări matematice în biologie cu aplicaţii.* Contract 2 CEx-06-11-97/2006, subcontract nr.1, finanţat de ANCS, valoare: 47737 RON.

51. **Aurel Spătaru,** CNCSIS 27639/2005 pe anii 2005-2007, *Deviaţii mari, moderate şi mici în studiul proceselor aleatoare. Asimptotici exacte şi aplicaţii.* 7700 RON.

52. **I.M. Stancu-Minasian:**GAR 19/2006, *Programarea neliniară cu funcţii $\rho$-semilocal convexe pe arce.* Valoare: 4000 RON.

53. **I.M. Stancu-Minasian:** Grant CEEX 05-D8-19/2005 *Sisteme support pentru cultura cunoaşterii bazate pe soluţii şi instrumente din domeniul BI* (*Business Inteligence*)- *SSCB.* Perioada de desfăşurare sept. 2005 – sept. 2008. Valoare: 85000 RON/2006.

54. **Marcel Ovidiu Vlad,** Contract 2-CEX/06-II-26/2006, (2006-2008), Analiza matematică a experimentelor de răspuns în cinetica chimică şi biochimică, genetică şi biologie moleculară. Valoare: 92.000 RON.

**2007**

55. **Voicu Boşcaiu**, PNCDI2 91-052/2007, MEC, *Modelarea şi evaluarea impactului investiţiilor directe naţionale şi internaţionale asupra pieţii muncii şi evoluţiilor macroeconomice din România*. Coordonator ASE. Valoare : 2007 : 30000 RON.

56. **Voicu Boşcaiu**, CALIST5405/ 12.11.2004, MEC, *Metode statistice de control al proceselor prin determinarea capabilitatii utilajelor si proceselor ca instrumente aplicate in sistemul de management al calitatii conform* SR EN ISO 9001:2001. În parteneriat cu Institutul de Inginerie, Consultanţă şi Proiectare pentru Metalurgia Neferoasă, S.A., **IPRONEF.**

57. **Voicu Boşcaiu**, CEEX MANANTECH 11/10.10.2005, MEC, *Evaluarea gradului de poluare acvatica prin biomarkeri de apoptoza si biosenzori celulari in vederea biomonitorizarii bazinului Dunării şi aprecierii calitatii produsului alimentar de origine piscicola, coordonator:* Institutul National de Cercetare – Dezvoltare pentru ştiinţe Biologice(INCDSB), Bucureşti . Valoare 2005: 3000 RON; 2006:10000 RON; 2007:10000 RON.

58. **Mioara Buiculescu,** GAR 26/2007, *Probleme actuale privind recurenta, ergodicitatea si stabilitatea proceselor Markov in timp continuu*, 4000 RON.

59. Responsabil proiect ISMMA, **Vladimir Cardoş,** *Cercetare-dezvoltare instalaţie eoliană pentru irigarea suprafeţelor agricole deficitare agroclimatic. Experimentare, certificare şi punere în fabricaţie.* Comtract 61/2006 CEEX-AGRAL (38 500 RON); 2007=28.500 RON.

60. Coord. **Horia Dumitrescu**, *Modelarea întârzierii desprinderii aerodinamice datorită rotaţiei.* ,Program IDEI; CNCSIS (poz. 50, (94 pct., Stiinte ingineresti), Cod CNCSIS 880, 2007-2009, 300 000 RON.

61. **Cornelia Enăchescu**, Contract CEEX 55, (2006-2008)**,** Proiect integrat privind noi modele pentru corelari in vitro - in vivo în scopul reducerii numărului experimentelor de biodisponibilitate in vivo IVIV CORREL. Subcontract 55/1, 60.000 RON.

62. **Stelian Ion**, *Evolutii cinetice si stari stationare de neechilibru.* Contract CEX-05-D11-06/03.10.2005-CEEX, ANCS, 22 191 RON

63. **Stelian Ion**, *Modelare matematica in mecanica mediilor continue. Aplicatii in stiinta materialelor.* Contract 2-CEX06-11-12/25.07.2006-CEEX, ANCS, 22 000 RON.

64. **Gabriela Marinoschi**, *Modelare matematică în procese de difuzie.* Contract CEEX-05-D11-25/2005, pe perioada 2005-2007, finanțat de ANCS, valoare: 291100 RON.

65. **Gabriela Marinoschi**, Analiza şi controlul sistemelor diferenţiale, Contract CEEX-05-D11-36, subcontract nr. 3-14730/2005, finanțat de ANCS, valoare: 35000 RON.

66. **Gabriela Marinoschi**, *Noi abordări matematice în biologie cu aplicaţii.* Contract 2 CEx-06-11-97/2006, subcontract nr.1, finanțat de ANCS, valoare: 114612 RON.

67. **Mihai Popescu**, *Control optimal şi parţial singular pentru traiectorii optime de transfer,* Grant 33505, 2002-2004, MEC, 80 000 RON.

68. **Mihai Popescu**, *Control optimal pentru probleme de urmărire rendez-vous spaţial orbital şi traiectorii optime aeroasistate*, Programul AEROSPATIAL, Cod 11036, Contract 20/2002, 2002-2004 MEC. 105 000 RON.

69. **Mihai Popescu**, *Metodologii de sinteză a controlului antisaturant pentru sisteme aeroasistate prin determinarea indicelor de performanţă cu orizont infinit*, 2002-2004, cod 21036, Ctr.54/2002, MEC, 40 000 RON.

70. **Mihai Popescu**, *Control optimal pentru sisteme neliniare, cu aplicaţii la controlul sateliţilor,* Programul AEROSPATIAL Contract de finanţare nr. 87/2003, 2004-2005, MEC, 219 400 RON.

71. **Mihai Popescu**, *Control optimal pentru sisteme neliniare afine*, 2005-2006, Grant Academia Română, 5000 RON.

72. **Mihai Popescu**, *Control optimal singular şi stabilitate în dinamica sistemelor,* Proiect de excelenţă CEEX D 11-44, 2005-2007, PNC-I, 297 500 RON.

73. **Mihai Popescu**, *Optimizarea proceselor de urmărire – evadare în lupta aeriană şi de interceptare orbitală pentru misiuni spaţiale,* Proiect CEEX , Programul SECURITATE, 2006, MEC 105 000 RON.

74. **Mihai Popescu,** *Soluţii optimale stabilizatoare a funcţionalelor pătratice cu timp infinit pentru sisteme de comandă liniare şi neliniare,* Grant al Academiei Române Contract GAR 27/17.08.2007, 2007-2008, 4000 RON (în 2007).

75. **Mihai Popescu,** *Stabilitate, sistem fundamental de soluţii periodice, bifurcaţia soluţiilor pentru orbitele periodice Lagrangiene,* Grant CNCSIS 80 GR/2006, 58 GR/2007, 2006-2008, 75 000 RON.

76. **Marius Rădulescu,** Responsabil subcontract E 133-02 al contract CEEX 28/2005 din partea ISMMA al unui proiect *Software bazat pe metode avansate de decizie pentru o agricultură durabilă din cadrul* Programului naţional CERCETARE DE EXCELENTA al MedC . Valoarea subcontractului: 250.000 RON. Derulare contract 2005-2008.

77. **Aurel Spătaru,** CNSIS 27639/2005 pe anii 2005-2007, *Deviaţii mari, moderate şi mici în studiul proceselor aleatoare. Asimptotici exacte şi aplicaţii.* 12000 RON.

78. **I.M. Stancu-Minasian:** GAR 25/2007, *Programarea neliniară cu funcţii $\rho$-semilocal b-preinvexe.* Valoare: 4000 RON.

79. **I.M. Stancu-Minasian:** Grant CEEX 05-D8-19/2005 *Sisteme support pentru cultura cunoaşterii bazate pe soluţii şi instrumente din domeniul BI* (*Business Inteligence*)- *SSCB.* Perioada de desfăşurare sept. 2005 – sept. 2008. Valoare: 85000 RON/2007.

80. **I.M. Stancu-Minasian:** CNCSIS GR/2007, *Programarea neliniară pentru calse de funcţii tip I şi clase de inegalităţi variaţionale asociate.* Valoare: 50000 RON.

81. **Marcel Ovidiu Vlad,** Contract 2-CEEX/06-II-26/2006, (2006-2008), *Analiza matematică a experimentelor de răspuns în cinetica chimică şi biochimică, genetică şi biologie moleculară.* Valoare:110.000 RON.

**Valoarea totală contracte: 3167038 RON**

## 9.2. Lista echipamentelor performante achiziţionate în ultimii 10 ani

| Echipamentul | Anul fabricatiei | Valoarea | Sursa de finantare a investitiei |
|---|---|---|---|
| PC Pentium IV Core Duo 2800 MHz | 2007 | 1500ron | PNCDI2 91-052/2007 Voicu Boşcaiu |
| Multifunctionala HP C8180 | 2007 | 1500ron | PNCDI2 91-052/2007 Voicu Boşcaiu |
| Laptop Dell Inspiron 6400 Centrino Duo | 2006 | 3800 ron | CEEX 11/10.10.2005 Voicu Boşcaiu |
| Imprimanta Pixma iP3000 | 2004 | 300 ron | CALIST 5405/12.11.2004 Voicu Boşcaiu |
| Scaner Canon | 2005 | 320 ron | CALIST 5405/12.11.2004 Voicu Boşcaiu |
| CPU Pentium II/266MHZ | 1998 | 1908,9643RON | Contract grant 3012/1998 cu MCT - MioaraBuiculescu |
| CPU Cyrix/233MHz | 1998 | 625.128RON | Contract grant 3012/1998 cu MCT-MioaraBuiculescu |
| Imprimanta laser color Canon LBP5200 | 2006 | 1112.13RON | Contract GAR 17/2006 Mioara Buiculescu |
| Scanner BenQ 5560, A4 | 2006 | 155.87RON | Contract GAR 17/2006 Mioara Buiculescu |
| Laptop Dell Inspiron 1501 Turion 64*2TL 56 | 2007 | 1977.33RON | Contract GAR 26/2007 Mioara Buiculescu |
| NOTEBook HP INTEL CELERON | 2006 | .5000 RON | Contract CNCSIS 58/2006, val, V. Cardoş |
| Videoproiector VT68, | 2005 | 4140 RON | Contract CEEX D11-44/2005 V. Cardoş |
| Videoproiector VT67 | 2006 | 3700 RON | Contract CNCSIS 58/2006, V. Cardoş |
| Laptot Dell, | 2006 | 4000 lei. | Contract 61-83/2006, V. Cardoş |
| Notebook Chicony | 1998 | 2250 ron | GAR-Academia Romana, Gabriela Marinoschi |
| Imprimanta+scanner | 2003 | 1000 ron | GAR-Academia Romana, Gabriela Marinoschi |
| Notebook Acer | 2004 | 3000 ron | CNCSIS, Gabriela Marinoschi |
| Calculator Intel Pentium IV | 2005 | 4505 ron | CNCSIS + GAR-Academia Romana, Gabriela Marinoschi |
| Soft Comsol Multiphysics Perpetual | 2005 | 11549 ron | CEEX-D11-36/2005, Gabriela Marinoschi |

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|---|---|---|---|
| Floating Network, Comsol Script<br>Perpetual Floating Network | | | |
| Soft Scientific WorkPlace v5.5 | 2005 | 451 ron | CEEX-D11-36/2005, Gabriela Marinoschi |
| Notebook HP Intel Centrino | 2006 | 4944 ron | GAR-Academia Romana, Gabriela Marinoschi |
| Soft WinEdt + Comsol | 2006 | 1800 ron | GAR-Academia Romana, Gabriela Marinoschi |
| Sistem calcul pentru retea-Pentium IV | 2006 | 3260.6 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Calculator – Sever Dual Xeon D | 2006 | 12887.7 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Videoproiector NEC UT58 | 2006 | 3607.13 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Calculator Intel 3.0 GHz | 2005 | 4571.55 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft Office 2003 Professional | 2006 | 1549.26 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft BitDefender | 2006 | 114.06 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft Comsol Multiphysics Sg User | 2006 | 6330.59 ron | CEEX-D11-36/2005 + 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Notebook Intel Centrino | 2006 | 9279.62 ron | 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Soft Server Win2003 | 2006 | 2591.79 ron | 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Imprimanta Canon | 2007 | 9530.42 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft BitDefender | 2007 | 140.18 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft Mathetatica 6 Edu | 2007 | 6291.37 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi |
| Soft Comsol Multiphysics- | 2007 | 1341.54 ron | CEEX-05-D11-25/2005, Gabriela Marinoschi actualizare mentenanta |
| Notebook HP Compaq | 2007 | 9526 ron | CEEX-D11-36/2005 + 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Soft Matlab- sg user, concurent-1user, module: optimization toolbox, symbolic | 2007 | 13531.08 ron | 2-Cex-06-11-97/2006, Gabriela Marinoschi |

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|---|---|---|---|
| math toolbox, PDE toolbox,  curve fitting toolbox, Matlab Compiler | | | |
| Soft Intel Visual Fortran Compiler | 2007 | 729.82   ron | 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Soft Origin v7.5 | 2007 | 2009.9   ron | 2-Cex-06-11-97/2006, Gabriela Marinoschi |
| Rețea informatică Calculator DDR 512 Mb,HDD 200 Gb, Monitor LG Flatron; Imprimanta HP DJ 6540 | | 11000 ron | finanțată de ANCS-CEEX Dumitru Popescu |
| Calculator Pentium MMX | 1998 | 1400  ron | grant MEC, Marius Radulescu |
| Calculator Pentium 4 | 2004 | 3000 ron | grant CNCSIS  1591, Marius Radulescu |
| Copiator Canon iR 2016J | 2006 | 2903,1 ron | CEEX 28/2005 Marius Radulescu |
| Sistem calcul Core | 2007 | 5834   ron | CEEX 28/2005 Marius Radulescu |
| Imprimanta multifunctionala 2820 | 2007 | 2550  ron | CEEX 28/2005 Marius Radulescu |
| Imprimanta MINOLTA PagePro 6e | 1998 | | Contract de Grant 5145/1999 cu MEdC-Aurel Spataru |
| Copiator MINOLTA EP1030 | 1998 | | Contract de Grant 5145/1999 cu MEdC-Aurel Spataru |
| Scaner GENIUS HR6 | 2000 | 3.12.5 RON | Contract de Grant 5145/1999 cu CNCSIS-Aurel Spataru |
| Monitor SAMSUNG TFT 913N | 2004 | 1.505 RON | Contract de Grant 27639/2005 cu CNCSIS-Aurel Spataru |
| Imprimanta HP Laser Jet 1022 | 2005 | 622 RON | Contract de Grant 27639/2005 cu CNCSIS-Aurel Spataru |
| Notebook Amilo | 2005 | 3.850 RON | Contract de Grant 27639/2005 cu CNCSIS-Aurel Spataru |
| PC Celeron 2800 MHz | 2005 | 2050 ron | CEX05-D8-19/05.10.2005 Ion Stancu-Minasian |
| PC Intel 2800 MHz | 2005 | 1750 ron | CEX05-D8-19/05.10.2005 Ion Stancu-Minasian |
| Imprimantă HP LJ 3020 | 2004 | 1818  ron | RELANSIN  76/2004  Gh. |

| | | | Zbaganu |
|---|---|---|---|
| Calculator Pentium 4 | 2004 | 3000 ron | grant CNCSIS 831 Gh. Zbaganu |
| Imprimanta multifunctionala 2600 | 2005 | 2.012,17 ron | grant CNCSIS 831 Gh. Zbaganu |
| Notebook Sony Vaio VGN-TZ11MN | 2007 | 6531.46RON | Contract Proiect MEC: CEEX 55, 2006-2008 Cornelia Enăchescu |
| Notebook-Fujitsu-Siemens-Lifebook E8110 | 2006 | 5000RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Notebook-Fujitsu-Siemens-Lifebook C1410 | 2006 | 4988RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| CPU iMAC Core 2 Duo 17-inch 2GHz | 2006 | 4477,53RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Un Videoproiector electronic cu input analog si digital XGA | 2006 | 2760,01RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Calculator AM3800+ | 2006 | 3622RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| UPS APC Smart | 2006 | 979,99RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Software Wolfram Research Mathematica 5.2 MacUniversal 2006 | 2006 | 5879,49 | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Software Wolfram Research Publicon | 2006 | 664,81RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Software Wolfram Research Advanced Numeric MAC Methods | 2006 | 637,68RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Wolfram Research Control Szstem Proffesional EDU Single | 2006 | 1316,06RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Microsoft Office MAC 2004 | 2006 | 616,99RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| iWork 06 EDU | 2006 | 199,36RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| HDD extern Western Digital Mzbook Premium | 2006 | 631,92RON | Contract CEEX 06-11-26/2006-2008 |

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|---|---|---|---|
| 320GB | | | Marcel Ovidiu Vlad |
| Dispozitiv de afisare si redare ACD 20 | 2007 | 1330,49RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| Adaptor pentru ACD 20 | 2007 | 700,52RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| HDD SEAGATE 500 GB EXT USB | 2007 | 640,01RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| 2 Sisteme Calcul AMD 20 | 2007 | 9941,93RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |
| 2 Switch KVM 4 Porturi USB | 2007 | 448,01RON | Contract CEEX 06-11-26/2006-2008 Marcel Ovidiu Vlad |